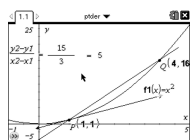


2.4b Instantaneous Rate of Change

Estimate the instantaneous velocity at $t=1$ Find the exact instantaneous velocity at $t=1$

$$\lim_{h \rightarrow 0} \frac{f(1+h) - f(1)}{h}$$

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Example 3 Find the equation of the tangent to the parabola $y=x^2$ at $x=2$ Example 5 Find an equation for the normal to the curve $y=4-x^2$ at $x=1$

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Example 6 Find the speed of a falling rock at $t=1$ if the distance it falls is $y=16t^2$

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